

Study Guide

For use with pages 107-111

GOAL Read and write decimals.

VOCABULARY

A **decimal** is a number that is written using the base-ten place-value system. Each place value is ten times the place value to its right.

Lesson 3.1

EXAMPLE 1 Expressing a Number in Different Ways

- a. Write 30 tenths as ones.

30 tenths

3×10 tenths

3×1 one

3

Think of 10 tenths as 1 one.

- b. Write 1 one and 7 hundredths using only hundredths.

1 one and 7 hundredths

100 hundredths and 7 hundredths

107 hundredths

Use the fact that 1 one equals 100 hundredths.

Exercises for Example 1

Complete the statement.

- 50 hundredths = 5 tenths.
- 5 ones and 3 tenths = 53 tenths.
- 3 ones and 2 hundredths = 302 hundredths.
- 4 ones = 400 hundredths.

EXAMPLE 2 Writing Decimals

- a. Write four and nine tenths as a decimal.

four and nine tenths

4.9

- b. Write twenty and twelve hundredths as a decimal.

twenty and twelve hundredths

20.12

- c. Write two hundred thirty-one thousandths as a decimal.

0.231

- d. Write fifty-seven and nine hundredths as a decimal.

57.09

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Exercises for Example 2

Write the number as a decimal.

7.8

5. seven and eight tenths

6. thirteen and six hundredths *13.06*

74.13

7. seventy-four and thirteen hundredths 8. five and twelve thousandths *5.012*

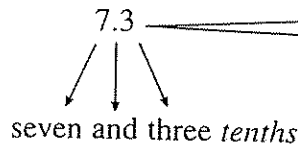
0.130

9. one hundred thirty thousandths

10. eighty-three and five tenths *83.5*

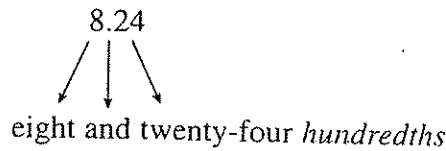
EXAMPLE 3 Reading Decimals

a. Write 7.3 in words.

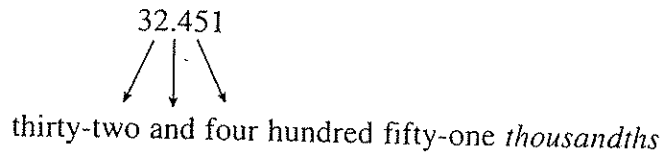


You read a decimal according to the last place value.

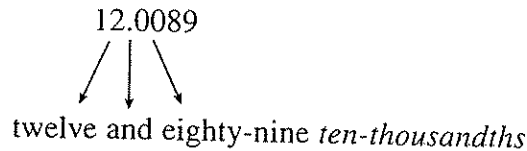
b. Write 8.24 in words.



c. Write 32.451 in words.



d. Write 12.0089 in words.



Exercises for Example 3

Write the decimal in words.

11. 9.5 *nine and five tenths*

12. 27.8

13. 18.73 *eighteen and seventy-three hundredths*

14. 4.06 *four and six hundredths*

15. 1.342

16. 34.013

17. 5.002

18. 13.0876

19. 2.0015

17) *five and two thousandths*

18) *thirteen and eight hundred seventy-six ten-thousandths*

19) *two and fifteen ten-thousandths*